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OM nucleic - nucleic search, using sw model

Run on:     December  6, 2002, 23:36:56 ; Search time 52 Seconds
                                           (without alignments)
                                           11435.527 Million cell updates/sec

Title:           US-10-025-514-7
Perfect score:   1525
Sequence:        1 tctagaccatgtctggaaag.........ccaactcagaagtagtcgac 1525

Scoring table:   IDENTITY_NUC
                 Gapop 10.0 , Gapext 1.0

Searched:        350425 seqs, 19496369 residues

Total number of hits satisfying chosen parameters:     700850

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Published_Applications_NA:*
                 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
                 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
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                14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Match Length	DB	ID	Description
1	442.4	29.0	1345	10	US-09-782-378A-13	Sequence 13, Appl
2	433.4	28.4	1352	10	US-09-964-824A-545	Sequence 545, App
3	433.2	28.4	1371	10	US-09-964-824A-544	Sequence 544, App
4	411.2	27.0	1390	10	US-09-765-231A-19	Sequence 19, Appl
5	224	14.7	594	10	US-09-964-824A-582	Sequence 582, App
6	224	14.7	594	10	US-09-954-456-1989	Sequence 1989, Ap
7	224	14.7	594	10	US-09-865-812-1	Sequence 1, Appli
8	219.2	14.4	1422	10	US-09-880-107-2090	Sequence 2090, Ap
9	216.6	14.2	1714	10	US-09-917-800A-1421	Sequence 1421, Ap
10	192.8	12.6	1872	10	US-09-880-107-2257	Sequence 2257, Ap
11	192.2	12.6	1245	10	US-09-755-665-13	Sequence 13, Appl
12	182.6	12.0	2051	10	US-09-917-800A-1325	Sequence 1325, Ap
13	161	10.6	391	10	US-09-960-352-12287	Sequence 12287, A
14	146.4	9.6	430	10	US-09-960-352-10531	Sequence 10531, A
15	135.8	8.9	444	10	US-09-960-352-14649	Sequence 14649, A
16	135.6	8.9	418	10	US-09-960-352-7066	Sequence 7066, Ap
17	134.2	8.8	1710	9	US-09-912-628-2	Sequence 2, Appli
18	126.2	8.3	1632	9	US-09-912-628-3	Sequence 3, Appli
19	125.4	8.2	430	10	US-09-960-352-5191	Sequence 5191, Ap
20	124.2	8.1	388	10	US-09-960-352-7567	Sequence 7567, Ap
21	123.2	8.1	439	10	US-09-960-352-10330	Sequence 10330, A
22	123	8.1	2089	10	US-09-992-598-409	Sequence 409, App
23	123	8.1	2089	9	US-09-989-293A-409	Sequence 409, App
24	123	8.1	2089	10	US-09-989-722-409	Sequence 409, App
25	123	8.1	2089	10	US-09-989-723-409	Sequence 409, App
26	123	8.1	2089	10	US-09-989-279-409	Sequence 409, App
27	123	8.1	2089	10	US-09-989-727-409	Sequence 409, App
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32	123	8.1	2089	10	US-09-991-163-409	Sequence 409, App
33	123	8.1	2089	10	US-09-993-604-409	Sequence 409, App
34	123	8.1	2089	10	US-09-990-456-409	Sequence 409, App
35	123	8.1	2089	10	US-09-989-721-409	Sequence 409, App
36	121.8	8.0	1585	10	US-09-765-231A-18	Sequence 18, Appl
37	120	7.9	421	10	US-09-960-352-1559	Sequence 1559, Ap
38	118.4	7.8	433	10	US-09-960-352-13206	Sequence 13206, A
39	118.2	7.8	541	10	US-09-864-761-17682	Sequence 17682, A
40	116.4	7.6	445	10	US-09-960-352-5918	Sequence 5918, Ap
41	115.8	7.6	412	10	US-09-960-352-1792	Sequence 1792, Ap
42	114.8	7.5	398	10	US-09-960-352-3413	Sequence 3413, Ap
43	113.4	7.4	418	10	US-09-960-352-2321	Sequence 2321, Ap
44	113	7.4	395	10	US-09-960-352-12468	Sequence 12468, A
45	113	7.4	403	10	US-09-960-352-11740	Sequence 11740, A

ALIGNMENTS

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RESULT 1
US-09-782-378A-13
; Sequence 13, Application US/09782378A
; Patent No. US2002010273lA1.
; GENERAL INFORMATION:
;  APPLICANT: Hearing, Patrick
;  APPLICANT: Bahou, Wadie
;  APPLICANT: Sandalon, Ziv
;  APPLICANT: Gnatenko, Dmitri
;  TITLE OF INVENTION: Adenoviral Vectors
;  FILE REFERENCE: STONYB-04970
;  CURRENT APPLICATION NUMBER: US/09/782,378A
;  CURRENT FILING DATE: 2001-02-12
;  PRIOR APPLICATION NUMBER: 60/237,747
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.0
;  SEQ ID NO 13
;  LENGTH: 1345
;  TYPE: DNA
;  ORGANISM: Homo sapiens
US-09-782-378A-13

  Query Match              29.0%;  Score 442.4;  DB 10;  Length 1345;
  Best Local Similarity    59.9%;  Pred. No. 3.2e-104;
  Matches  740;  Conservative   0;  Mismatches  496;  Indels   0;  Gaps   0;

Qy    284  GTGTTGTATGGGTATGGTGGTAAGTCCTGTGTTTCCCAGTCAAGGCCATGGAAGAGACCC  343
           |||  ||||  || ||  ||||| ||||||||||||||||||||||||||||||  |||
Db     32  GTGGGGCATCCTCCTGGCAGGCCTGGCTGCCTCGGCCCCTGGTCCCTGGCTGGAGGATCC   91

Qy    344  TCAAGGCGACGCCGCTCAAAAAACCGACACCAGTCATCACGACCAAGACCATCCGACTTT  403
           ||| ||||| ||| || ||| |||| | ||||| || | |||| ||| ||  | |||
Db     92  CCAGGGAGATGCTGCCCAGAAGACAGATACATCCCACCATCAGGATCACCCAACCTT    151

Qy    404  TAATAAAATTACTCCAAATTTAGCCGAATTTGCTTTTCTTGTATAGACAATTAGCTCA   463
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Db    152  CAACAAGATCACCCCCAACCTGGCTGAGTTCGCCTTCAGCCTTCAGCCTTCAGCGCTTCGGCCTTGGCACA  211

Qy    464  TCAAAGTAATTCTACTAACATTTTTTAGTCCTTGTTTCTATTGCCACTGCTTTCGCCAT   523
           ||   |  | ||  | ||||  | || ||| | ||| |  | |||| ||| | |||||
Db    212  CCAGTCCAACAGCACCAATATCTTCTTCTCCCCAGTGAGCCATCGCTACAGCCTTTGCAAT  271
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; Patent No. US20020102531A1
; GENERAL INFORMATION:
;  APPLICANT: Horrigan, Stephen
;  TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Sign
;  TITLE OF INVENTION: Sets
;  FILE REFERENCE: 689290-73
;  CURRENT APPLICATION NUMBER: US/09/964,824A
;  CURRENT FILING DATE: 2001-09-27
;  PRIOR APPLICATION NUMBER: US/60/236,033
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,032
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: US/60/236,028
;  PRIOR FILING DATE: 2000-09-28
;  NUMBER OF SEQ ID NOS: 583
; SEQ ID NO 545
;  LENGTH: 1352
;  TYPE: DNA
;  ORGANISM: Homo sapiens
;  FEATURE:
;  NAME/KEY: misc_feature
;  LOCATION: (1)...(1352)
;  OTHER INFORMATION: n=a,t,g or c
US-09-964-824A-545

Query Match             28.4%;  Score 433.2;  DB 19;  Length 1352;
Best Local Similarity   59.7%;  Pred. No. 7.4e-102;
Matches  729;  Conservative   0;  Mismatches  493;  Indels   0;  Gaps   0;
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Qy        298 TGTGTGGTAAGTCCTGTGTTCCCAGTCAAGGCCATGGAAGACCCTCAAGGCGACGACGCG 357
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Db         54 TGGCAGGCCTGTCGTGCCTGGTCTCCTGGTCAAGGGATCCCAGGGAGATGCTG 113

Qy        358 CTCAAAAAACCGACACCAGTCATCACGACCAAGACCATCCGACTTTAATAAAATTACTC 417
              |  |||||| ||| |||| | |||| ||  ||| || |||| ||||  ||||  |  ||
Db        114 CCCAGAGACAGAGACAATCCACCATGATCAGGATCAGGATGCCAACCTTCAACAAGATCACCC 173

Qy        418 CAAATTTAGCCGAATTTGCTTTTCTTGTATAGACAATTGCTCATCAAAGTAATTCTA 477
              ||      ||||||  ||  || || ||||||    || ||  ||| |||||| |
Db        174 CCAACCTGGCTGAGTCGCCTATACCGCACCTATACCGCACCAGTCCACCAGCA 233

Qy        478 CTAACATTTTTTAGTCGTGTTCTATTGCCACTGTCTTCATTGCCATGTGAGTTTAGGTA 537
              ||       || ||||| || | || ||||| | ||| ||  |||||||  |||  ||
Db        234 CCAATATCTTCTTCTCCCAGTGACGATGAAATCGGAGGGCCTACAGGTTTCAACCTCACCGGAGATTC 293

Qy        538 CTAAAGCCGATACCCATGACGAGATTTAGAAGTTTAAACTTAATTGACCGAAATCC 597
              |    ||||  | |||  ||||| | || |||||||||  ||| || ||||||||||
Db        294 CCAAGGCTGACACTGACATGAAAATCCCGGAGGGCCTGAATTTCAACCTCACGGAGATTC 353

Qy        598 CAGAAGCCCAAATTCACGAGGGTTTCAAGAGTTTCAAGAGTTTGTTGAGAACTTTGAATCAACCTGATT 657
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Db        354 CGGAGGGCTCAGATCCATGAAGGCTTCAGAGGCCTGAGGCCTCAACCAGCCAGAGCAGACA 413

Qy        658 CTCAATTGCAATTAACTACTGGTTGTACGGTTATTTTGTCTGAAGGTTTAAAATTGGTTG 717
              | ||||| ||  |  || || |||| | ||||   |||| ||  ||| |||| ||  || |
Db        414 GCCAGCTCCAGCTGGCTGGCCAATGGCCTGTTCCTGCAGAGGGGCCTGAAGCGGGCTAGTGG 473

Qy        718 ACAAATTCCTAGAGACGTCAAGAAACTATATCATAGTGAGGCTTTACCGTTAATTTTG 777
              | ||||| || | |||| || |||| || |  ||||||   ||   ||| ||| ||||
Db        474 ATAAGTTTTTGGGAGATGTTAAAAAGTTGAAAGTTCTACTACTCAGTCTCAACTTCG 533

Qy        778 GTGATACTGAGGAAGCTAAAAGCAAATTAATGATTAATGTGAGAAGGCACCCAGGGTA 837
              | ||  ||| ||| || |||| |||  |  | || || || | ||||  |||  |||| |
Db        534 GGGACACCGAAGAGGCCAAGAAACAGATCAACAGATTACGTGGAGAAGGGTACTCAAGGGA 593

Qy        838 AGATCGTTGACCAGTAAAGAATTAGATCGTGATACGTTCCGCACTAGTTAACTATA 897
              | | || | | ||| ||||||| || |  | ||| ||    || |  ||    |||
Db        594 AAATTGTGGATTTGGTCAAGGAGTTGACAGAGACACCAGTTTTTGCTCTGTGGAATTACA 653

Qy        898 TTTTTTCAAGGGTAAGTGGGAACGTCCTTTGAGGTTAAAGATACTGAAGAGGAAGAGATT 957
              |  | ||||| ||||| |||| || | || | |||||| || |||  || ||||| |||
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Qy        524 GTTGAGTGTTAGGTACTAAAGCCGATACCCATGACGAGATTTAGAAGGTTTAAACTTTAA 583
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Db        272 GCTCTCCCTGGGGACCAAGGCTGACACTCACGATGAAATCCTGAGGGCCTGAATTTCAA 331

Qy        584 TTTGACCGAAATCCCAGAGACGAGCCCAAATTCACGAGGGTTTCAAGAGTTGTTGAGAACTTT 643
              |  |||||||||||||||||  ||  | ||||  |||| | ||||||||| |||| ||||||
Db        332 CCTCACGGAGATTCCGGAGGCTCAGATCCATGAAGGCTTCAGGTACTTCCTCAGCCTACCCT 391

Qy        644 GAATCAACCTGATTCTCAATTGCAATTAACTACTGGTTGTACGGTTTATTTTGTCTGAAGG 703
              | | | |  | || || ||||||  |     | ||  ||| || || ||||  |||||||
Db        392 AAACCAGCCAGACACGACAGCCAGCTCCGACTGACCACCGCAATGGCCTGTTCCTCAGCGAGGG 451

Qy        704 TTTAAATTGGTTGACAAATTCCTAGAGACGTCAAGAAACTATATCATAGTGATGGTTTGAGATCTTT 763
              | |||   || ||| ||||| || | ||| || |||| |  |  ||| ||  ||| |||| |
Db        452 CCTGAAGCGGGCTAGTGGATAAGTTTTTGGGAGATGTTAAAAAGTTGTACCACTCAGAAGCCCTT 511

Qy        764 TACCGTTAATTTTGGTGATACTGAGGAAGCTAAAAAGCAAATTAATGATTGAGATGGTTGAGAA 823
              ||||  || |||||| || || ||| || |  ||||  ||||  | || ||   |   |||| |
Db        512 CACTGTCAACTTCGGGGATCACGAGGAGCCAAGAAACAGATCAACGATTACGTTGGAGA 571

Qy        824 AGGCACCCAGGTAAGTCGTTGACCAGTTAAAGAATTAGATCGTGATACCGTCTTCGC 883
              | ||  ||| |  ||||  ||  |  ||| |||||| || |  | |||  ||||   ||
Db        572 GGGTACTCAAGGGAAAATTGTGGATTTGGTCAAGGAGTTGACAGAGACACCAGTTTTTGC 631

Qy        884 ACTAGTTAACTATATTTTTTCAAGGGTAAGTGGGAACGTCCTTTCGAGGTTAAAGATAC 943
              ||  |||| ||    |  || ||| |||| |||| ||  | || | ||| |||| || |
Db        632 TCTGTGGAATTACACATCTTCTTTAAAGGCAAATGGGAGAGACCCTTTGAGTCAAGGACAC 691

Qy        944 TGAAGAGGAAGAGATTTCATGTTGATCAAGTTACTACTGTCCAAGTTCCAATGATGAAAAG 1003
              ||||| |||| | |||  ||| | |||||| | ||  ||  || |  || | |||| | |
Db        692 CGAGGACGAGGACTTCCACGTGACCAGGTCGACCTATGAGTCCCTATGATGAGAGCG 751

Qy       1004 ACTGGGTATGTTCAATATTCAACATTGCAAAAAATTAAGTTCTTGGGTCTTATTATGAA 1063
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Db        752 TTTAGGCATGTTAACATCCAGCACTGTACCGGTACTGGGTACTGCTAATGAA 811

Qy       1064 GTATTTAGGTAACGCTACTGCTATTTTTTTTTTACCAGACGAAGGTAAGCTTCAACATTT 1123
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Db        812 ATACCTGGCAATGCCACCGCCCATCTTCTCTACCTGATGAGGGAAACTACAGACCACCT 871

Qy       1124 AGAGAATGAGTTGACTCATGACATTATTTTTAGAGAACGAGGATCGTCGTAG 1183
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Db        872 GGAAAATGAACTCACCCACGATATCATCACCAAGTTCCTGGAAAATGAAGACAGAAGGTC 931

Qy       1184 CGCTTCTCTGCACCTGCCCAAAGTTAAGTATCACCGGTACTTACGGACTTAAAATCTGTTTT 1243
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Db        932 TGCCAGCTTACATTACCAAACTGTCCATTACTGGAACCTATGATGTCGAAGAGCGTCCT 991

Qy       1244 AGGCCAGTTAGGTATTACCAAAGTTTTTCTAACGTCGCCGATTTGAGTGTGTGTACTGA 1303
              |||||  | | |    | || | || |  || | |  | || | ||||| ||  || |
Db        992 GGGTCAACTGGGCCATCACTAAGGTCTCAGTGGGGCTGACCTCTCCGGGGTCACAGA 1051

Qy       1304 AGAGCTCCATTAAAATTGAGTAAGCGTCTTCACAAAGCCGTCTTAACTATTGATGAAAA 1363
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Db       1052 GGAGGCACCCGAGCTGTGGGGGCGCTGGATAAGGCGCTATTGGAAGCTGTCTTGATGAGAA 1111

Qy       1364 AGAGTAGGATGGCGCCGGCGCCTGGAAGCTATCTCCTGGAAGCTATTCCAATGAGCATTCCACCAGA 1423
              || | || ||||||  | ||  | ||| || |   |||  || || | ||| |||| ||
Db       1112 GGGGACTGAAGCTGCTGTGGGGCCATCCTACTGTTTTAGAGGCCATCCATATGCTATCCCCCAGA 1171

Qy       1424 AGTTAAATTTAATAAACCATTCGTTTTTCTGATGATCGAGCAGAGACACTAAAAGCCCATT 1483
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Db       1172 GGTCAAGTTCAACAAAACCCTTGTTTGTTCTTCTTAATGATTGAACAAAATACCCAAGTCTCCCCT 1231

Qy       1484 GTTTATGGTAAGGTTGTCAACCCAACTCACGAAGTA 1519
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RESULT 2
US-09-964-824A-545
; Sequence 545, Application US/09964824A
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Matches 729; Conservative 0; Mismatches 493; Indels 0; Gaps 0;

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Qy   298 TGTGTGGTAAGTCCTGTGTTCCCCAGTCAAGGCCATGCCAGTCAAGGCCAACCTCAAGGCGACGGCCG 357
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Db    73 TGGCAGGCCGTGTCGCCTGGTCCCTGGTCTCCCCGGCGTTTAATAAGTATTTAGGTAACG 132

Qy   358 CTCAAAAAACCGACACCAGTCATCACGACCATCCACCATGCAGGATCACCCAACCTTCAACAAGATCACACCC 417
         |  ||| ||  |  |||   |  |||   || ||  ||  |||   ||
Db   133 CCCAGAAGACAGACATATCCACCATGATCAGGATCACGACAATTCAACAGATCAATTCTA 192

Qy   418 CAAATTTAGCCGAATTGCTTTCTTTCTTGTATAGACAATTAGTCATCAAAGTAATTCTA 477
         ||   || | | || |||  |||||  ||| |  |||| || |  ||  ||  ||  | |
Db   193 CCAACCTGGCTGAGTTGCCCTTCAGCCTATACCGCCAGTGGCACCACCAGTCCAACAGCA 252

Qy   478 CTAACATTTTTTTAGTCCTGTTCTATTGCCACTGCTTTCGCCATGTTGCCCATGTTGAGTTTAGGTA 537
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Db   253 CCAATATCTTCTTCTCCCCAGTGAGCATCGCTACAGCCTTTCAATGCTCTCCCTGGGA 312

Qy   538 CTAAAGGCCGATACCCATGACGAGATTTTAGAGAGTTTAAACTTTAATTTGACCGAAATCC 597
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Db   313 CCAAGGCTGACACTCACGATGAAAATCCTGGAGGGCCTGAATTCAACCTCACGGAGATTC 372

Qy   598 CAGAAGCCCAAAATCACCGAGGGTTTCAAGACTTTGTTGAGAACTTTGAATCAACCTGATT 657
         | ||| | ||  || |||| || || || ||  | || || ||  | || | ||| | |
Db   373 CGGAGGCTCAGATCCATGAAGGCTTCCAGGAACTCCTCCGTACCCTCAACCAGCCAGACA 432

Qy   658 CTCAATTGCAATTAACTACTGGTAACGGTGTTTATTTTGTCTGAAGGTTAAAATTGGTTG 717
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Db   433 GCCAGCTCCAGCTGACCACCGGCAATGGCCTTGTTCCTCAGCGAGGGCCTGAAGCTAGTGG 492

Qy   718 ACAAATTCCTAGAAGCGTCAAGAAACTATATCATGAGGCTTTCATAGTGACCGTTAATTTG 777
         | ||  ||  ||||  ||  || || |||| |||    |  |||| | |||| |  ||
Db   493 ATAAGTTTTTGGAGGATGTTAAAAAGTTGTACCACTCAGAAGCCTTCACTGTCAACTTCG 552

Qy   778 GTGATACTGAGGAAGCTAAAAGCAAATTAATGATTACGTGGAGAAGCGACCCCAGGGTA 837
         | || |||||||| || ||||| |||| ||||||||||||||||| || |   ||| |
Db   553 GGGACACCGAAGAGGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACTCAAGGGA 612

Qy   838 AGATCGTTGACCTAGTTGGTGATGGGAACGTCCTTTCGCACTAGTTAACTATA 897
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Db   613 AAATTGTGGATTTGGTCAAGGAGCTTGACAGAGACACAGTTTTTGCTCGTGGTGAATTACA 672

Qy   898 TTTTTTTCAAGGTAAGTGGGAACGTCCTTTCGAGGTTAAAGATACTGAAGAGGAAGATT 957
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Db   673 TCTTCTTTAAAGGCAAATGGGAAGACCCCTTTGAAGTCAAGGACACCGAGGAAGAGGACT 732

Qy   958 TTCATGTTGATCAAGTTACTACTGTCAAAGTTCCAATGATGAAAAGACTGGGTATGTTCA 1017
         |||| ||||| | |||| ||  ||||| ||| |||||||| | || |||||| |||| | |
Db   733 TCCACGTGGACCCAGGTGACCACCGTGAGGTGCCTATGATGAGCATGGTTTAGGCATGTTTA 792

Qy  1018 ATATTCAACATTGCAAAAAATTAAGTTCTTGGGGTTCTTATTAATGAATGATTATTAGGTAACG 1077
         | || |||||| | ||||| || ||  |||||| | || | || ||| |||  | ||| ||
Db   793 ACATCCAGCACTGTAAGAAGCTGTCCAGCTGGGTCGTGATGAAAATACCTGGGCAATG 852

Qy  1078 CTACTGCTATTTTTTTTTTCTGATGATCGAGCAGAACACTACAGCACCTGGAAATGAACTCA 1137
         || | || || ||   |  ||||||| ||||| || |||||||||||||  |  ||||||||
Db   853 CCACCGCCATCTTCTTCCTGCCTGATGAGGGGAAACTACAGCACCTGCACTCTCCACC 912

Qy  1138 CTCATGACATTATTACTAAATTTTAGAGAACGAGGATCGTCGTAGCGCTTTCTCTGCACC 1197
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Db   913 CCCACGATATCATCACCAACAGTTCCTGGAAAATGAAGACAGAAGGTCTGCCAGCTTACATT 972

Qy  1198 TGCCAAAGTTAAGTATCACCGGTACTTACGGACTAAAATCTGTTTTAGGCCAGTTAGGTA 1257
         | ||||| || || |||||| | | | |||| ||||| ||||| | ||||||| ||||||
Db   973 TACCCAAACTGTCCATTACTGGAACCTATGGATCTGAAGAGGCGTCCTGGGTCAACTGGGCA 1032

Qy  1258 TTACCAAAGTTTTTTCTAACGTGCCGATTTGAGTGGTGTTACTGAAGAAGTCCATTAA 1317
         | || ||||| ||| ||||| |||| |||| || ||||| |||||||||| ||| |||
Db  1033 TCACTAAGGTCTTCAGCAATGGGGTCGACCTCTCCACGAGAGGCAGGCACCCCTGA 1092

Qy  1318 AATTGAGTAAAGCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGGTACCGAGGCCG 1377
         || | ||||||||||| |||||||| || ||||| ||||||||||||||| |||||| ||
Db  1093 AGCTCTCCAAGGCCCGTCGATAAGGCTGTGCTGACCATCGACGAGAAAGGGACTGAAGCTG 1152
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Qy   958 TTCATGTTGATCAAGTTACTACTGTCAAAGTTCCAATGATGAAAAGACTGGGTATGTTCA 1017
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Db   714 TCCACGTGGACCCAGGTGACCACCGTGAGGTGCCTATGATGAGCATGGTTTAGGCATGTTTA 773

Qy  1018 ATATTCAACATTGCAAAAAATTAAGTTCTTGGGGTTCTTATTAATGAATGATTATTAGGTAACG 1077
         | || |||||| | ||||| || ||  |||||| | || | || ||| |||  | ||| ||
Db   774 ACATCCAGCACTGTAAGAAGCTGTCCAGCTGGGTCGTGATGAAAATACCTGGGCAATG 833

Qy  1078 CTACTGCTATTTTTTTTTTCTGATGATCGAGCAGAACACTACAGCACCTGGAAATGAACTCA 1137
         || | || || ||   |  ||||||| ||||| || |||||||||||||  |  ||||||||
Db   834 CCACCGCCATCTTCTTCCTGCCTGATGAGGGGAAACTACAGCACCTGCACTCTCCACC 893

Qy  1138 CTCATGACATTATTACTAAATTTTAGAGAACGAGGATCGTCGTAGCGCTTTCTCTGCACC 1197
         || | || || || |  || ||   ||||| ||| || |||| ||  |||| | ||| ||
Db   894 CCCACGATATCATCACCAACAGTTCCTGGAAAATGAAGACAGAAGGTCTGCCAGCTTACATT 953

Qy  1198 TGCCAAAGTTAAGTATCACCGGTACTTACGGACTAAAATCTGTTTTAGGCCAGTTAGGTA 1257
         | ||||| || || |||||| | | | |||| ||||| ||||| | ||||||| ||||||
Db   954 TACCCAAACTGTCCATTACTGGAACCTATGGATCTGAAGAGGCGTCCTGGGTCAACTGGGCA 1013

Qy  1258 TTACCAAAGTTTTTTCTAACGTGCCGATTTGAGTGGTGTTACTGAAGAAGTCCATTAA 1317
         | || ||||| ||| ||||| |||| |||| || ||||| |||||||||| ||| |||
Db  1014 TCACTAAGGTCTTCAGCAATGGGGTCGACCTCTCCACGAGAGGCAGGCACCCCTGA 1073

Qy  1318 AATTGAGTAAAGCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGGTACCGAGGCCG 1377
         || | ||||||||||| |||||||| || ||||| ||||||||||||||| |||||| ||
Db  1074 AGCTCTCCAAGGCCCGTCGATAAGGCTGTGCTGACCATCGACGAGAAAGGGACTGAAGCTG 1133

Qy  1378 CCGGCGCTATGTTCCTGGAAGCTATTGCCAATGAGCATTCCACCAGAAGTTAAATTTAATA 1437
         |  || |   |  |||| ||  | ||| | ||| || | |   || || ||  | ||  |
Db  1134 CTGGGGCCATGTTTTTAGAGGCCATGACAGCCATGATCTATCCCCCGAGGTCAAGTTCAACA 1193

Qy  1438 AACCATTCGTTTTTCTGATGATCGAGCAGAACACTAAAAGCCCATTGTTGTTATGGGTAAGG 1497
         | |||||| |  |  ||||||| || ||| | |  |||| |||||| |  ||| |||| ||
Db  1194 AACCCTTTGTCTTCTTAATGATTGAACAAAATACCAAGGTGCTCCCCTTCCCTTCATGGGAAAAG 1253

Qy  1498 TTGTCAACCCAACTCAGAAGTA 1519
         | | |||||    |  ||| |
Db  1254 TGGTGAATCCCACCCAAAAATA 1275
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RESULT 3
US-09-964-824A-544
; Sequence 544, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu[re]
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 544
; LENGTH: 1371
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1371)
; OTHER INFORMATION: n=a,t,g or c
US-09-964-824A-544

Query Match   28.4%;   Score 433.2;   DB 10;   Length 1371;
Best Local Similarity 59.7%;   Pred. No. 7.4e-102;

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Db   549 GGGGACACCGAAGAGGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACTCAAGGG 608
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Qy   837 AAGATCGTTGACCTAGTTAAGAATTAGATCGTGTATACCGTCTTTCGCCACTAGTTAACTAT 896
         |  |  ||| |  ||| ||| |||  ||| | | || || |||  |||| || || ||||
Db   609 AAAATTGTGAATTGGTCAAGGAGCTTGACAGAGACACAGTTTTTGCTCTGGTGAATTAC 668
         || ||||| ||||  |||| ||| | | | |||| | ||| || || ||||||
Qy   897 ATTTTTTCAAGGTAAGTGGAACGTCCTTTCGAGGTTAAAGATACTGAAGAGGAAGAT 956
         |  || ||  ||| ||| || |||||||||  || |||| |||| |||||| |||||
Db   669 ATCTTCTTTAAAGGCAAATGGAGGACCCTTTGAAGTCAAGGACACCGAGGAAGAGGAC 728
         ||  | ||| || |||| ||| | |||| |||| ||| | |||||| |||||| |||
Qy   957 TTTCATGTTGATCAAGTTACTACTGTCAAAGTTCCAATGAATGAAAGACTGGGTATGTTC 1016
         ||||| |||||||| ||| ||  | |||| |||||| ||||| | |||||||| ||||||
Db   729 TTCCACGTGGACCAGGTGACCACCGTGAAGGTGCCTATGATGAGCGTTTAGGCATGTTT 788

Qy  1017 AATATTCAACATTGCAAAAAATTAAGTTCTTGGGTCTTATTAATCAAGTA-TTTAGGTAA 1075
         || ||||| |||| | || || |  || ||  ||||| || ||||||   | |||| |||
Db   789 AACATCCAGCACTGTAAGAAGCTGTCCAGCTGGGTGCTGCTGATGAAATACCTGGGCAA 848
         ||  | || | |   ||| ||    ||   | | ||    | ||| |    | ||| ||
Qy  1076 CGCTACTGCTATTTTTTTTTTTACCAGACGAAGGTAAGCTTCAACATTAGAGAATGAGTT 1135
         ||  | || | ||  |||||    ||| ||||| ||| | ||| | || ||| || | ||
Db   849 TGCCACGCCATCTTCCTTCGCCTGATGAGGGAAACTACAGCACCTGGAAAATGAACT 908
Qy  1136 GACTCATGACATTATTACTAAATTTTAGAGAACGACGGATCGTCGTAGCGCTTCTCTGCA 1195
         ||| ||||| ||| | ||  | || ||| ||| ||| ||||| |  | | ||| | | |
Db   909 CACCCAGCGATATCATCCACCAGTTCCTGGAAAATGAAGACAGAAGGTCTCGCCAGCTTACA 968
Qy  1196 CCTGCCAAGTTAAGTACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTAGG 1255
         || || |||| |||  | || | | | ||| | ||| | || |||  ||| ||||
Db   969 TTTACCCAAACTGTCCATTACTGGAACCTATGATCTGAAGACGCGTCCTGGGTCAACTGGG 1028
Qy  1256 TATTACCAAAGTTTTTTTCTCTAACGGTGCCGATTTGAGTGGTGTTACTGAAGAAGCTCCATT 1315
         ||||||  |||||   | | | |||| | || ||||| ||||| |||||||||||| |||||
Db  1029 CATCACTAAGGTCTTCAGCAATGGGCGTGACCTCTCCGGGTCACAGAGGAGCGACCCCCT 1088
Qy  1316 AAAATTGAGTAAAGCTGTTCAAAGCCGTCTAACTATTGATGAAAAGGGTACCGAGGC 1375
         |||| ||||  |||| ||| |||||| | |  ||| |||||||| || ||| ||||
Db  1089 GAAGCTCTCCAAGGCCGTGCATAAGGCTGTGCTGCAGCATCGGACGAGGAAAGGGACTGAAGC 1148
Qy  1376 CGCCGGCGTATGTTCCTGGAAGCATTCCAATGAGCAGTCCACCAGAAGTTAAATTAA 1435
         ||| || || || ||| ||| |||  | ||||||| ||| ||||| ||| ||| |||
Db  1149 TGCTGGGGCCATGTTTTTAGAGGCCATACCATGTAATCCCCCGAGGTCAAGTTCAA 1208
Qy  1436 TAAACCATTCGTTTTTTCTGATGATCGAGCAGAACACTAAAAAGCCCATTGTTTATGGGTAA 1495
         |||||| || | || | | |||||  || || || || |||| ||| || ||| ||||| |
Db  1209 CAAACCCTTTGTCTTCTTAATGATTGAACAAAAATACCAAGTCTCCCCTCTTCATGGGAAA 1268
Qy  1496 GGTTGTCAACCCAACTCAGAAGTA 1519
         | | ||||| ||| || |||| ||
Db  1269 AGTGGTGAATCCCACCCAAAAATA 1292
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RESULT 5
US-09-964-824A-582
; Sequence 582, Application US/09964824A
; Patent No. US2002010253A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Sign
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 582
; LENGTH: 594

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Qy  1378 CCGGGCCTATGTTCCTGGAAGCTATTCCAATGAGCATTCCACCAGAAGTTAAATTTAATA 1437
         | ||||| ||||| | || || ||  ||||||||||  | ||| ||  |  |||| |||
Db  1153 CTGGGGCCATGTTTTTAGAGGCCATAACCCATGTCTATCCCCCCGAGGTCAAGTTCAACA 1212
Qy  1438 AACCATTCGTTTTTCTGATGATCGAGCAGAACACTAAAAAGCCTAAAATAAAATACCAAGTGTTATGGGTAAGG 1497
Db  1213 AACCCTTTGTCTTCTTAATGATTGAACAAAATACCAAGTCTCCCCTCTTCATGGGAAAAG 1272
Qy  1498 TTGTCAACCCAACTCAGAAGTA 1519
         |||||| ||| || |||| ||
Db  1273 TGGTGAATCCCACCCAAAAATA 1294
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RESULT 4
US-09-765-231A-19
; Sequence 19, Application US/09765231A
; Patent No. US20020119452A1
; GENERAL INFORMATION:
; APPLICANT: Searle/Monsanto
; APPLICANT: Phippard, Deborah
; APPLICANT: Vasanthakamur, Geetha
; APPLICANT: Dotson, Stanton
; APPLICANT: Ma, Xiao-Jun
; TITLE OF INVENTION: Osteoarthritis tissue-derived nucleic acids, polypeptides,
; TITLE OF INVENTION: vectors, and cells
; FILE REFERENCE: SO-3221 PR
; CURRENT APPLICATION NUMBER: US/09/765,231A
; CURRENT FILING DATE: 2001-01-18
; NUMBER OF SEQ ID NOS: 82
; SEQ ID NO 19
; LENGTH: 1390
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-765-231A-19

Query Match   27.0%;   Score 411.2; DB 10; Length 1390;
Best Local Similarity 59.6%;   Pred. No. 3.4e-96;
Matches   729; Conservative   0; Mismatches 493; Indels   2; Gaps   2;

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Qy   298 TGTGTGGTAAGTCCTGTGTTCCCCAGTCAAGGCCAGTGAAGACCCTCAAGGCGACGCCG 357
         | | |||  ||| |||| || | |||| ||||||||
Db    69 TGGCAGGCGTGTCGCCTGGTCCTGTCTCCCTGGCTAGCCCCGAGGGATCCCCAGGGAGATGCTG 128
Qy   358 CTCAAAAAACCGACACCACCAGTCATCACGACCAAGACCATCCGACTTTTAATAAATACTC 417
         |  ||| | | ||  |||||||| ||  |  | || |||  |  | |||| ||| ||||| |
Db   129 CCCAGAAGACAGATACATCCCACCATGATCAGGATCACCCAACCTTCAACAAGATCACCC 188
Qy   418 CAAATTTAGCCGAATTGCTTTTCTTTGTATAGACAATTAGCTCATCAAAGTAATTCTA 477
         || ||  ||| |  || || || |||   || ||  |||| || || ||| ||| | |
Db   189 CCAACCTGCTGAGTTGCGCCTTCAGCCTATACCGCCAGCTGGCCACACCAGTCCAACAGCA 248
Qy   478 CTAACATTTTTTAGTCCTGTTCTATTGCCACTGCTTTCGCCATG-TTGAGTTTAGGT 536
         | || | || || || | || | |||||||||| |  |||||  |||| ||||| |
Db   249 CCAATATCTTCTCTCCCCGTGAGCATCGCTACAGCGTTACAGCCTTTGCAATGCTCTCCCCTGGGGG 308
Qy   537 ACTAAAGCCGATACCCATGACAGAGATTTAGAGAGTTTTTAATTGACCGAAATC 596
         || || || || ||| || | | || ||  | ||||| || || ||| |||| |
Db   309 ACCAAGGCTGACACTCACGATGAAAATCCTGGAGGGCCTGAATTTCAACCTCACGGAGATT 368
Qy   597 CCAGAAGCCCAAATTCACCGAGGTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGAT 656
         || || |  |||| || |  | || ||| |  |  |||| | || ||| ||| || ||
Db   369 CCGGAGGCTCAGATCCAGAGAGCTTCAGGAACTCCTCCGTACCCTCAACCAGCCCAGAC 428
Qy   657 TCTCAATTGCAATTAACTACTGGTAACGTTTATTTGTCTGAAGGTTAAAATTGGTT 716
         |  || || ||| || || || || ||| ||  |   | |||||  |||| ||||
Db   429 AGCCAGCTCCAGCTGACCACCGGCAATGGCCGTGTTCCTGCAGCGAGGCCTGAAGCTAGTG 488
Qy   717 GACAAATTCCTAGAAGAGTCAAGAAACTATATCATAGTGAGGCTTTTACCGTTAATTTT 776
         ||  ||||  | ||| || ||| | | ||||| ||  | ||||| || || |||| |
Db   489 GATAAGTTTTTGGAGGATGTTAAAAAGTTGTACCACTCAGAAGCCTTCACTGTCAACTTC 548
Qy   777 GGTGATACTGAGGAAGCTAAAAAGCAAATTATATTGATTATGTTGAGAAAGGCACCCAGGGT 836
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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-582

Query Match   14.7%;   Score 224; DB 10; Length 594;
Best Local Similarity 81.2%;   Pred. No. 3e-48;
Matches 260; Conservative 0; Mismatches 60; Indels 0; Gaps 0:

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Qy  12 TCTGGAAAGTCTTTCAAGGCCGGTGTTGTCCACCAAAGAAGTCCGCTCAATGTTTGAGA  71
        |||||||||| || ||||| ||||| ||| |||    ||||||  | | |   |  |||
Db  94 TCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTGCCTTAGA 153

Qy  72 TACAAGAAGCCAGAATGTCAATCCGACTGGCAATGCTCAGGTAAGAAGAGATGTTGTCCA 131
        ||||||| || ||||||| ||| ||||||| |||  ||||| |||||||||||||||
Db 154 TACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCCT 213

Qy 132 GACACTTGTGGTATCAAGTGTCTAGACCCCAGTTGACACCCCAAACCAACTAGAAGAAAG 191
        ||||||||| || || ||| ||   || ||||||||||||||||||  |  |||||||
Db 214 GACACTTGTGGCATCAAATGCCTGGATCCGTGTTGACACCCCAAACCCACAAGGAGGAAG 273

Qy 192 CCAGGTAAGTGTCCAGTTACTTACGGTCAATGTTGATGTTGAACCCACCAAACTTCTGT 251
        || ||  |||| ||||| ||||| ||| |||||||||| |  |  ||  || | |||||
Db 274 CCTGGGAAGTGCCCAGTGACTTATGGCCAATGTTGATGCTTAACCCCCCAATTTCTGT 333

Qy 252 GAAATGGACGGTCAATGTAAGAGACTTGAAGTGTTGTATGGGTATGTGTGGTAAGTCC 311
        || ||| || ||  |||| |||| ||||||| |||||| ||   | ||||||||
Db 334 GAGATGGGATGGCCCAGTGCACTTGAAGCGTGACTTGAAGTGTTGCATGGGCATGTGTGGGAAATCC 393

Qy 312 TGTGTTTCCCCAGTCAAGGC 331
        || |||||||  || || ||
Db 394 TGCGTTTCCCCGTGAAAGC 413
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RESULT 6
US-09-954-456-1989
; Sequence 1989, Application US/09954456
; Patent No. US2002011557A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cand
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689220-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1989
; LENGTH: 594
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-456-1989

Query Match   14.7%;   Score 224; DB 10; Length 594;

Best Local Similarity 81.2%;   Pred. No. 3e-48;
Matches 260; Conservative 0; Mismatches 60; Indels 0; Gaps 0:

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Qy  12 TCTGGAAAGTCTTTCAAGGCCGGTGTTGTCCACCAAAGAAGTCCGCTCAATGTTTGAGA  71
        |||||||||| || ||||| ||||| ||| |||    ||||||  | | |   |  |||
Db  94 TCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTGCCTTAGA 153

Qy  72 TACAAGAAGCCAGAATGTCAATCCGACTGGCAATGCTCAGGTAAGAAGAGATGTTGTCCA 131
        ||||||| || ||||||| ||| ||||||| |||  ||||| |||||||||||||||
Db 154 TACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCCT 213

Qy 132 GACACTTGTGGTATCAAGTGTCTAGACCCCAGTTGACACCCCAAACCAACTAGAAGAAAG 191
        ||||||||| || || ||| ||   || ||||||||||||||||||  |  |||||||
Db 214 GACACTTGTGGCATCAAATGCCTGGATCCGTGTTGACACCCCAAACCCACAAGGAGGAAG 273

Qy 192 CCAGGTAAGTGTCCAGTTACTTACGGTCAATGTTGATGTTGAACCCACCAAACTTCTGT 251
        || ||  |||| ||||| ||||| ||| |||||||||| |  |  ||  || | |||||
Db 274 CCTGGGAAGTGCCCAGTGACTTATGGCCAATGTTGATGCTTAACCCCCCAATTTCTGT 333

Qy 252 GAAATGGACGGTCAATGTAAGAGACTTGAAGTGTTGTATGGGTATGTGTGGTAAGTCC 311
        || ||| || ||  |||| |||| ||||||| |||||| ||   | ||||||||
Db 334 GAGATGGGATGGCCCAGTGCACTTGAAGCGTGACTTGAAGTGTTGCATGGGCATGTGTGGGAAATCC 393

Qy 312 TGTGTTTCCCCAGTCAAGGC 331
        || |||||||  || || ||
Db 394 TGCGTTTCCCCGTGAAAGC 413
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RESULT 7
US-09-865-812-1
; Sequence 1, Application US/09865812
; Patent No. US2002011556A1
; GENERAL INFORMATION:
; APPLICANT: Rastelli, Luca
; APPLICANT: Smithson, Glennda
; TITLE OF INVENTION: Method of Detecting Inflammatory Lung Disorders
; FILE REFERENCE: 21402-018 US
; CURRENT APPLICATION NUMBER: US/09/865,812
; CURRENT FILING DATE: 2001-05-28
; PRIOR APPLICATION NUMBER: 60/207,104
; PRIOR FILING DATE: 2000-05-25
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 594
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-865-812-1

Query Match   14.7%;   Score 224; DB 10; Length 594;
Best Local Similarity 81.2%;   Pred. No. 3e-48;
Matches 260; Conservative 0; Mismatches 60; Indels 0; Gaps 0:

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Qy  12 TCTGGAAAGTCTTTCAAGGCCGGTGTTGTCCACCAAAGAAGTCCGCTCAATGTTTGAGA  71
        |||||||||| || ||||| ||||| ||| |||    ||||||  | | |   |  |||
Db  94 TCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTGCCTTAGA 153

Qy  72 TACAAGAAGCCAGAATGTCAATCCGACTGGCAATGCTCAGGTAAGAAGAGATGTTGTCCA 131
        ||||||| || ||||||| ||| ||||||| |||  ||||| |||||||||||||||
Db 154 TACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCCT 213

Qy 132 GACACTTGTGGTATCAAGTGTCTAGACCCCAGTTGACACCCCAAACCAACTAGAAGAAAG 191
        ||||||||| || || ||| ||   || ||||||||||||||||||  |  |||||||
Db 214 GACACTTGTGGCATCAAATGCCTGGATCCGTGTTGACACCCCAAACCCACAACGAGGAAG 273

Qy 192 CCAGGTAAGTGTCCAGTTACTTACGGTCAATGTTGATGTTGAACCCACCAAACTTCTGT 251
        || ||  |||| ||||| ||||| ||| |||||||||| |  |  ||  || | |||||
Db 274 CCTGGGAAGTGCCCAGTGACTTATGGCCAATGTTGATGCTTAACCCCCCAATTTCTGT 333

Qy 252 GAAATGGACGGTCAATGTAAGAGACTTGAAGTGTTGTATGGGTATGTGTGGTAAGTCC 311
        || ||| ||  |||||| |||| ||||||| |||||| ||   | ||||||||
Db 334 GAGATGGATGGCCCAGTGCACTTGAAGCGTGACTTGAAGTGTTGCATGGGCATGTGTGGGAAATCC 393
```

```
Qy    312  TGTGTTTCCCAGTCAAGGC 331
           || |||||||| || |||| |
Db    394  TGCGTTTCCCCTGTGAAAGC 413

RESULT 8
US-09-880-107-2090
; Sequence 2090, Application US/09980107
; Patent No. US2002014298lAl
; GENERAL INFORMATION:
;   APPLICANT:  Horne, Darci T.
;   APPLICANT:  Vockley, Joseph G.
;   APPLICANT:  Scherf, Uwe
;   APPLICANT:  Gene Logic, Inc.
;   TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
;   FILE REFERENCE: 44921-5028-WO
;   CURRENT APPLICATION NUMBER: US/09/880,107
;   CURRENT FILING DATE:  2001-06-14
;   PRIOR APPLICATION NUMBER: US 60/211,379
;   PRIOR FILING DATE:  2000-06-14
;   PRIOR APPLICATION NUMBER: US 60/237,054
;   PRIOR FILING DATE:  2000-10-02
;   NUMBER OF SEQ ID NOS: 3950
;   SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2090
;   LENGTH: 1422
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: Genbank Accession No. US2002014298lAl J02943
US-09-880-107-2090

  Query Match             14.4%;  Score 219.2; DB 10;  Length 1422;
  Best Local Similarity   50.2%;  Pred. No. 7.4e-47;
  Matches  542;  Conservative   0;  Mismatches  538;  Indels    0;  Gaps   0;
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;   TYPE: DNA
;   ORGANISM: Rattus norvegicus
;   FEATURE:
;   OTHER INFORMATION: Genbank Accession No. US20020119462A1 M63991
US-09-917-800A-1421

Query Match          14.2%;   Score 216.6;  DB 10;  Length 1714;
Best Local Similarity 50.5%;    Pred. No. 3.7e-46;
Matches  590;  Conservative    0;  Mismatches  564;  Indels   15;  Gaps    2;

Qy    372 ACCAGTCATCACGACCAAGACCATCCGACTTTTAATAAAATTACTCCAAATTTAGCCGAA 431
              |||| || | ||||| | ||||  || |||||  |||||||| | ||| || ||||
Db     69 ACCTGTCATTTGCCCCAACAAAATGCCACTCTCTATAGATGCCATCTATCAATGCTGAT 128

Qy    432 TTTGCTTTTTCTTTGTATAGACAATTAGCTCATCAAAGTAATTCTACTAACATTTTTTTT 491
              ||||| || | |  |||||| ||  |||| || ||| || |||| ||||||||||||
Db    129 TTTGCTTCAGCCTGTATCGGAAGCTCTCTGTGGAGAACCCAGATTTGAACATCTTCTTC 188

Qy    492 AGTCCTGTTTCTATTGCCACTGCTTTCGCCATGTGAGTTAGGTACTAAAGCCGATACC 551
              ||||| ||   | ||  |||||||||| ||||  | |||| ||||| ||| |||
Db    189 TCCCCTGTGAGCATATCTGCTGCTTTAGCCATGCTCTTTTGGATCGGCTCTAGCACC 248

Qy    552 CATGACGAGATTTTAGAAGGTTAAACTTTAATTTGACCGAAATCCCAGAAGCCCAAATT 611
              ||| | | ||| ||| ||  ||  |||| |  ||||| | |  |||||  |||||
Db    249 CAAACACAGATTCTGGAGGTCTTGGGTTTAACCTCACAGACACTCCTGTGAAAGAATTA 308

Qy    612 CACGAGGGTTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATTCTCAATTGCAATTA 671
              ||| | |||||||| || | | ||  || ||||||| ||||| || |||| ||||||
Db    309 CAACAGGGCTTCCAGCATTGATCTGTTCATTGATCTGTTTCATTGAATTTCCCCAATAAT 368

Qy    672 ACTACTGGTAACGGTTTATTTTGTCTCGAAGGTTAAAATGGTTGACAAATTCCTAGAA 731
              |||| || ||| || | |  ||| ||  | ||||| | |||| ||| ||||||||
Db    369 CAGATGGGAAATGCAGTTTTTATTGGGCAACAGCTGAAACCACTGGCAAAGTTTTTGGAT 428

Qy    732 GAGCTCAAGAAAACTATATCATAGTGAGGCTTTTACCGTTAATTTGTGATACTGAGGAA 791
              ||||| ||||| | | | | ||| ||||||| |||  || ||||| ||| |||||||
Db    429 GATGTCAAGACCCTCATGAAACCCTCATGAAACTGAAGTCTTTTCTACTGACTTTTCTGCA 488

Qy    792 GCTAAAAAGCAAATTAATGATTATGTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTA 851
              ||    |  | | ||||| ||| || ||| ||| ||   | |||||| | ||| | ||
Db    489 GCCCAGCATGAGATCAACAGTTATGTGGAGAAGCAAACCAAAGGGAAAATTGTAGGCTTA 548

Qy    852 GTTAAAGAAATTAGATCGTGATACCGTCTTCGCCACTAGTTAACTATATTTTTTCAAGGGT 911
              ||||| | | || || | | ||| |||||| |||| || | |||||||| |||||||
Db    549 ATTCAAGACCTCAAACTGAACATTGAAAACTCTGTGAACTATATCATTTCAAAGCC 608

Qy    912 AAGTGGGAACGTCCTTTCGAGGTTAAAGTACTGAAGAG---GAAGATTTTCATGTTGAT 968
              |||| | | ||||||||| || |||  ||| | |||||     | || |  |||||||
Db    609 CAGTGGGCAAATCCTTTTCGTGTATCCTAAAACAGAGAGGTTCCAACTTCTCAGTGGAC 668
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Qy    373 CCAGTCATCACGACCAAGACCATCCGACTTTTAATAAAATTACTCCAAATTTAGCCGAAT 432
              ||| ||    |||| |  ||||||  ||||||||||||||   |||||||||||||
Db    416 CCTGCCATTCATCCCAACAAATGCCACTCTCTACAGAGATGTAAAATTCATTACTTTTA 475

Qy    433 TTGCTTTTTCTTTGTATAGAACTAGCTCATCATCAAAGTAATTCTACTAACATTTTTTA 492
              |||||| | || | |||    ||| | ||| | ||||||| | || |||| |||||
Db    476 TTGCATTCAATCGTACCGGAGGTTCACTGTGGACATGCTCATTTCAAAGAACATCTTCTTTT 535

Qy    493 GTCCTGTTTCTATTGCCACTGCTTTCGCCATGTGAGTTAGGTACTAAAGCCGATACCC 552
              | ||||  |||    ||  ||||| | ||||  |||||| ||||| |||| ||||
Db    536 CCCCTGAGCATTTCTGCAGTTTGGTTATGCTTTGGGCGTCTGCTGCACCC 595

Qy    553 ATGACGAGATTTAGAAGGTTTAAACTTTAATTTGACCGAAATCCCAGAAGCCCAAATTC 612
              ||| || |||||  |||| |||||| |||  | || ||| | | |||| ||| |||
Db    596 AAACTGAGATTGTGGGAGACCTTGGGTTCAACCTCACAGACACTGTAGAGATCC 655

Qy    613 ACGAGGGTTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATTCTGATTCTCAATTGC 672
              |||  | |||||| || | | |||  | |||| || ||  ||| |  ||| ||||||
Db    656 AGCATGGCTTCCAGCATCGTGATCTGTTCACTGTTCACTGAATTTTCCAAAGAAGAACTGGAATTGC 715

Qy    673 CTACTGGTAACGGTTTATTTTGTCTGAAGAAGCTCCATTAAAATTGTTGACAAATTGAGTAAA 732
              || || || || |||| |||||| | ||||  |  | |||| |||| ||| |||| |||
Db    716 AGATAGGAAATGCCCTCTTCATTGGCAAGCATCGAAATCTGAAACCACTGGCAAAGTTTCTTGAATG 775
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RESULT 10
US-09-880-107-2257
;   Sequence 2257, Application US/09880107
;   Patent No. US2002014298 1A1
;   GENERAL INFORMATION:
;   APPLICANT: Horne, Darci T.
;   APPLICANT: Vockley, Joseph G.
;   APPLICANT: Scherf, Uwe
;   APPLICANT: Gene Logic, Inc.
;   TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
;   FILE REFERENCE: 44921-5028-WO
;   CURRENT APPLICATION NUMBER: US/09/880,107
;   CURRENT FILING DATE:  2001-06-14
;   PRIOR APPLICATION NUMBER: US 60/211,379
;   PRIOR FILING DATE: 2000-06-14
;   PRIOR APPLICATION NUMBER: US 60/237,054
;   PRIOR FILING DATE: 2000-10-02
;   NUMBER OF SEQ ID NOS: 3950
;   SOFTWARE: PatentIn Ver. 2.1
;   SEQ ID NO 2257
;   LENGTH: 1872
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: Genbank Accession No. US2002014298 1A1 M14091
US-09-880-107-2257

Query Match          12.6%;   Score 192.8;  DB 10;  Length 1872;
Best Local Similarity 49.2%;    Pred. No. 5.1e-40;
Matches  574;  Conservative    0;  Mismatches  577;  Indels   15;  Gaps    2;
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Qy   1329 GCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGTACCGAGGCCGCCGGCGCTATG 1388
              ||| |||||||||||| || | |  ||| |||| ||  || || | || |||||  |
Db   1029 GCTTTTCACAAGGCGTGTGCTACACATTGGTGAAGAGGAACTAAAGAAGGAGCTTCCT 1088

Qy   1389 TTCCTGGAAGCTAT--------------TCCAATGAGCATTCCACCAGAGCGAGTTAAATTTAAT 1436
              ||  || |||| ||                |||||| || |  ||||| |||| |||||||
Db   1089 GAAGCTGGATCTCTGGATCAGCCAGAAGTAGCTCCTCTTCACCGTCATCCCATTGGAT 1148

Qy   1437 AAACCATTCGTTTTTCTGTGATGCAGACGAGCAGAACACTAAAAGCCCATTGTTTATGGGTAAG 1496
              | | || | | |  | || | |||| || |||| |  |||| | | ||||| |||||
Db   1149 AGAACATTCTTACTGATGTCTTTAGAGAAAACGAACAAGAAGTGTTCTCTTTTTAGGGAAA 1208

Qy   1497 GTTGTCAACCCAACTCAGAAGTAGTCGAC 1525
              ||||| |||||||| | |  | | |
Db   1209 GTTGTTGACCCACACAAAAGAGTAATTAAC 1237
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; PRIOR FILING DATE: 2000-01-06
; NUMBER OF SEQ ID NOS: 118
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1245)
US-09-755-665-13

Query Match             12.6%;   Score 192.2;  DB 10;  Length 1245;
Best Local Similarity   49.2%;   Pred. No. 6e-40;
Matches  537;  Conservative   0;  Mismatches  548;  Indels   6;  Gaps   1;

Qy   429 GAATTTGCTTTTTCTTGTATAGACAATTAGCTCATCAAAGTAATTCTACTAACATTTTT 488
             | ||| || ||   |  |      || ||   |||   |  ||  |  ||    |||
Db   160 GACTTAGGCTTTAAGCTGCTCAAGAAGCTGGCCTTTACACCCTGGCAGGAACATCTTC 219

Qy   489 TTTAGTCCTGTTCTATTGCCACTGCTTTCGCCATGTGAGTTTAGGTACTAAAGCCGAT 548
             |   | || |  ||   ||  | || ||| ||||| | | || |   || || |
Db   220 CTATCCCCCTGAGCATCTCTACAGCTTTCCCATGCTGTGCCTGGGTGCCAGGAGACAGC 279

Qy   549 ACCCATGACGAGATTTTAGAAGTTTAAACTTAATTGACCGAAATCCCAGAAGCCCAA 608
             |||| ||  | | |      | |       |  |         ||      ||
Db   280 ACCCTGGACGAGATCAAGCAGGGGTCAACTTCAGAAAG------ATGCCAGAAAAAGAT 333

Qy   609 ATTCACGAGGGTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATTCCAATTGCAA 668
             ||||   ||| ||||  |      |  |    |      |||    |  ||  |||
Db   334 CTTCATGAGGGCTTCCATTCATTCATCCACCGAGCTGTTTAAAATTGTTGACAAATCCTA 393

Qy   669 TTAACTACTGGTAACGGTTTATTTGTCTGAAGGTTAAATTACCAAAGTTT 728
             ||  | |  |      |  ||    | |    |   |  |  ||||  |
Db   394 CTGAGCATTGGGAACACGCTGTTCATTGACCAGAGGCTGCAGCACAGCGTAAGTTTTTG 453

Qy   729 GAAGACGTCAAGAAACTATATCATAGTGAGGCTTTACCGTTAATTTGGTGATACTGAG 788
             |||| || ||   | | || | | ||| ||| | ||  |     |  | |  |||
Db   454 GAAGATGCCAAGAACTTTTACAGTGCCGAAACCATCCTTACCAACTTCAGAATTTGGAA 513

Qy   789 GAAGCTAAAAGCAAATTAATGATTATGTTGAGAAAGCACCCAGGGTAAGCTGTTGAC 848
             ||||| ||    | | |     | | ||| |      || ||| ||||     | |
Db   514 ATGGCTCAGAAGCAGATCAATGACTTTATCAGTCAGAAGCCATGGAAAATTAACAAC 573

Qy   849 CTAGTTAAAGAATTAGATCGTGATACCGTCTTCGCACTAGTTAACTATATTTTTTCAAG 908
             |    |  |   |  ||  |  | |   |   |    |  |  |   || | |  |
Db   574 CTGATCGAGAATATAGACCCCGCACTGTGATGCTTCTTGCAAATTATATTTTCTTTCGA 633

Qy   909 GGTAAGTGGGAACGTCCTTCGAGTTAAAGATACTGAAGAGGAAGATTTTCATGTTGAT 968
             ||     ||||     | |   ||   |   ||     || ||| |  || |  |
Db   634 GCCAGGTGGAAACATGAGTTTGATCCAAATGTAACTAAAGAGGAAGATTTTCTTTCGGAG 693

Qy   969 CAAGTTACTACTGTCAAAGTTCAAAGTCCATGACCCATGGTATGTTCAAATATTCAACAT 1028
             |  ||  |||| | |  || ||    |    ||  | || || || |     | |   |
Db   694 AAAAACAGTTCAGTCAAGTGGCCCATGAATGGTTCCGTATATACCAAGGTTGGCTAT 753

Qy  1029 TGCAAAAAATTAAGTTCTTGGGTGTCTTATTAATGAAATACCCTGGAAAAATATCACAGCCATC 1088
             |   ||   |      ||    |  |  |  | | | || | | |   | |  || |||
Db   754 GACGATAAGCTCTCTTGCACCATCCTGGAAGTCTTAGACGAGGTTAAGGAATGAGTTGACTCATGACATT 813

Qy  1089 TTTTTTTTACCGACGAAGGTAAGCTTCAACATTAGAGAATGAGTTGGACACT 1148
             | ||    || |  ||    ||   ||||  |  | | |  |   |     ||
Db   814 TTCATCCTTCCTGATGAGGCAAGCTGAGCACTTGGAGCACACTTGGAGCACT 873

Qy  1149 ATTACTAAATTTTTAGAGACAACAATTACTTGTCACGCAGGGTGTCGTACCCAGAGTTA 1208
             | |  || |  | |   |    |    |  | |  ||    | |   |  ||  ||   |
Db   874 TTCTCCAGATGGAAAACATTACTGTCACGCAGGTCGTGACGTGTCTGTACCCAGACTC 933

Qy  1209 AGTATCACGGTACTTACGACTTAAAATCTGTTTTAGGCCCAGTTAGGTATTACCAAAGTT 1268
             || | ||  ||| |   | | |  | |  ||| | |    | |  | |  ||    |
Db   934 CACATGACGGCACCTTCGACCTGCAGAGACTCTCCTACATAGGTGTCTCCACATAAAATC 993

Qy  1269 TTTTCTAACGGTGCCGATTTGAGTGGTTTACTGAAGAGCTCCATTAAAATTGAGTAA 1328
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Qy   733 AGTCCAAGAAACTATATCATAGTGAGGCTTTTACCGTTAATTTGGTGATACTGAGGAAG 792
             ||||||||         | || |||     ||      ||   |  | | |||||||
Db   776 ATGTCAAGAAGACCCCTCTATGAGACTGAAGTCTTTCTACCGACGACTTGTGACCTAG 835

Qy   793 CTAAAAAGCAAATTAATGATTAATGTGTTGAGAAGGCACCCAGGGTAAGATCGTTGACCTAG 852
             | ||  |||      |   ||   |  || || ||     |  ||       | | ||
Db   836 CCAAGCAGGAGATTAACAGTGCATGTGGAGTGATGCAAACCAAAGGGAAGTGTGGGTCTAA 895

Qy   853 TTAAGAATTAGATCGTGATACCGTCCTTCGCACTAGTTAACTATATTTTTTTCAAGGGGTA 912
             | |  |  | |    |  | || ||  || || | ||     || || |||| |   |
Db   896 TTCAAGACCTCAAGCCAAACCACCACTATGGTCTTAGTGAACTATATTATTCACTTTAAAGCCCC 955

Qy   913 AGTGGGAACGTCCTTTCGAGTTAAAGATACTGAAGA---GGAAGATTTTCATGTTGATC 969
             ||| ||||      |   ||    |  |  ||  | |      |   |  ||| |   |
Db   956 AGTTGGGCAAATCCTTTGATCCATCCAAGAGCAGCAGTTCCAGCTTCTTCTTAATAGACA 1015

Qy   970 AAGTTACTACTGTCAAAGTTCCAATGATGAAAAGACTGGGTATGTTCAATATTCAACATT 1029
             |   | | || | || |  ||   ||| | | ||    | |    | |   ||  | |
Db  1016 AGACCACACTGTTCAGTGCCATGATGATGCCAGATGACAGAGTCCACCTTAGTGG 1075

Qy  1030 GCAAAAAATTAAGTTCTTGGGGTGTCTTATTAATGAAGAGTATTAGGTATTAACGCTACTATTT 1089
             |  | | |     | || |        ||     | | |  |       ||  || || ||||
Db  1076 ATATGAATTGAACTGCACAGTTCTGCAAATGGACTTACAGCAAGAATGCTCTGGCACTCT 1135

Qy  1090 TTTTTTTACCAGCAGGAAGGTAAGCTTCAACATTTAGAAGAATGAGTTGACTCATGACATTA 1149
             || || | |   |    ||     |  ||    ||  | | | ||  | || || ||  ||
Db  1136 TGTTCTCCCAAGGAGGGACAGGGACTCAGTGAAGGTTGCCCATGTTCATCTAAAACAC 1195

Qy  1150 TTACTAAATTTTTAGAGACAACGGCTTACGACTTAAAATCTGTTTTAGGCCCAGTTAGGTTAA 1209
             | ||  | | | |  |  |    ||| | | | ||   | ||  || |  || | || ||||
Db  1196 TGAAGAAGTGGAACCGCTTACTACAGAAGGGATGGGTTGACTTGTTGGTTGTTCCCAAAGTTTT 1255

Qy  1210 GTATCACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTAGGTATTACCAAGTTT 1269
             || |||  ||   | | | | |  | |      | |  ||   | |   || | | |||
Db  1256 CCATTTCTGCCACATAATGACCTTGGAGCCACACTTTTGAAGATGGGCCATTCCAGCATGCCT 1315

Qy  1270 TTTCTAACGGTGCCGATTTGAGTGGTCGTGTTACTGAAGAAGCTCCATTGAGTACTATATG 1329
             |||  | | |  ||     | |     |  |  ||     | | ||  |   | || ||  |
Db  1316 ATTCTGAAATGCTGATTTTTCTCGGACTCAGAGGACAATGGTCTGAAAACTTCCAATG 1375

Qy  1330 CTGTTCACAAAGGCCGTCTTAACTATTGGATGAAAAAGGTACCGAGGCCCGGCCTATGT 1389
             || | |     | |   |  |||      |    | |  ||  |   ||| || |  |
Db  1376 CTGCCCATAAGGCGTGCTGCACCATTGGTGAAAGGGAACTGAAGCTGCAGCTGCCCTG 1435

Qy  1390 TCCTGGAA---------GCTATTCCAAATGAGCATTCCACCAGAAGTTAAATTTAATA 1437
             |  |||||             | |  |         |          |   || | |
Db  1436 AAGTTGAACTTTCGGATCAGCCTGAAAAACACTTTCCTACACCCTATTATCCAAATTGATA 1495

Qy  1438 AACCATTCGTTTTTCTGATGATCGAGCAGAGAACACTAAAAAGCCCATTGTTTATGGGTAAGG 1497
             | ||  |  |  |   || | | |    ||   || || | | |   |  || | ||| ||
Db  1496 GATCTTCATGTTGTTGATTTGAGGAGAGCCACAAGGAGTATTCTCTTTCTTCTAGGGAAAG 1555

Qy  1498 TTGTCAACCCAACTCAGAAGTCG 1523
             |||||||  || |   ||||  |
Db  1556 TTGTGAACCCAACGGAAGCGTAGTTG 1581
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RESULT 11
US-09-755-665-13
; Sequence 13, Application US/09755665
; Patent No. US20020107186A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Sudhirdas K.
; APPLICANT: Majunder, Kumud
; APPLICANT: Taillon, Bruce E.
; APPLICANT: Spaderna, Steven K.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 15966-631
; CURRENT APPLICATION NUMBER: US/09/755,665
; CURRENT FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/174,724
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Db   298 TCTTCTCCCACTTAGACATCTCAGCCGCTCGGCGCTGTCCCTGGGAGCAAAGGGCA  357
             ||||     ||     ||||||     |  |     | |||     |||  ||| ||
Qy   547 ATACCCATGACCAGAGATTTAGAAGGTTTAAACTTTAATTGACGAAATCCCGAAGCCC  606
             |||| |||  | |     ||||||| |||||     |  |     |     | || |||
Db   358 ACAGCATGGAAGAGATTCTAGAAGGTCTCAAGTTCAATCTCACAGAGACCCCTGAGACAG  417
             ||| ||||||     |||| || ||| ||     || ||||     | || | |||||
Qy   607 AAATTCACGAGGGTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATTCTCAATTGC  666
             |||||     ||     | |||||||     | |||     || ||| ||| | |
Db   418 AAATCCACCGGGCGTTTGGACACCTCCTCCAGAGGCTCAGCCAGCCAAGGGACGAGGATAC  477
             | |||| |||     |||| || |     || |||  | |||  ||| |
Qy   667 AATTAACTACTGGTAACGGTTTATTTTTGTCTGAAGTTTAAAATTGGTTGACAAATTCC  726
             |||| |||  | | |  ||||  | |||     |   || |||||     |  |||||||
Db   478 AGATCAGTACAGGCAATGCCCTGTTTATTGAAAAAGCCCTTCAGGTCCTGGCAGAGTTCC  537
             ||| ||     ||||||||| |  ||||  | ||| ||| | | || |||| | || |||
Qy   727 TAGAAGACGTCAAGAAACTATATCAATGACTATGTTGAGAAAGGCACCCAGGTAAGATCGTTG  786
             ||    |||||||  ||| | ||||  ||||||  |||||     ||||    |||  ||
Db   538 AGGAGAAGGCAAAGGCTCTGTACCAAGCTGAGGCCTTCACAGCTGATTTCCAGCAGTCTC  597
             ||     ||||||||     ||||     | || || | |     || ||| |||
Qy   787 AGGAAGCTAAAAGCAAATTAATGATTATGTTGAGAAAGGCACCCAGGTAAGATCGTTG  846
             |     || ||  |||      ||| || |   || |     ||| ||     |||||||
Db   598 GTGAGGCCAAAAAGTCATCAATGACTATGTGACACAGACCCAGGGGAAGATCCAGG  657
             ||||| || ||||     | ||| || ||| ||| |||  ||  |||| |||||||
Qy   847 ACCTAGTTAAGATTAGATCGTGATACCGTCTCCGCACTAGTTAACTATATTTTTTCA  906
             ||||||||||  ||||  | ||||  ||||||  ||||||||||  || || || |||
Db   658 GACTGATCACAAACCTAGCTAAGAAGACATCCATGGTACTGTGAATTACATCTACTTTA  717
             |||| ||     |||| || |  || || ||  || ||||| || | |  ||| |||||
Qy   907 AGGGTAAGTGGGAACGTCCTTCGAGGTAAAGATACTGAAGAGAAGATTTCATGTTG  966
             | |||     | |||| |||| ||  | | ||||| || |||     | ||||||||
Db   718 AAGGCAAATGAAGGTGCCTTTTGACCCTCGGGACACATTCCAGTCTGAGTTCTACTCTG  777
             ||||||||| | | ||||     |||| | || || || |||  ||| |||| |||||
Qy   967 ATCAAGTTACTACTGTCAAGTTCCAATGATGAAAAGACTGGGTATGTTCAATATTCA--  1024
             || |     ||||||||||||     ||| ||  ||  |||  |||     ||  ||
Db   778 GCAAAAGGAGGCCTGTCAAAGTGCCCATGATGAAGCTTGAGGACCTGACCACACCCTACG  837
             || ||||  |   ||||||||||||||||||  |||  ||||||||  ||||||||||
Qy  1025 -ACATTGCAAAAAATTAAGTTCTTGGGTCTTATTAATGAAGTATTAGGTAACGCTACTG  1083
             |||||| ||||||  ||| || |  |||||||||||||  |||| ||||| || ||||
Db   838 TCCGGGATGGAGCTGAACTGCACTGTGTGGAGCTGAAGTACACAGGAAATGCCAGCG  897
             || |||||  |||||||| || ||||| |||||||||  || |||| |||||||||||
Qy  1084 CTATTTTTTTTTACGAGCAGAAGGTAAGCTTCAACATTTAGAGAATGAGTGACTCATG  1143
             | |||||||||||  ||||||  ||  || || |  ||||||||  | |||||||||||
Db   898 CCCTGTTTTATCCTCCCTGACCAGGGCAAGATGCAGCAGGTGAAGCCAGCTTGCAACCAG  957
             ||||||||| ||||||||||||||  ||||||||||||||  |||| |||| |||||||
Qy  1144 ACATTATTACTAAATTTTTAGA---GAACGAGGATCGTCGTAGCGCTTCTCTGCCACCTGC  1200
             || ||| ||||  |||| ||       || ||||  | |  | ||||||| |||||||||
Db   958 AGACCCTGAGGAGATGGAAGGACTCTCTCAGCCCCAGCCATGATGATAGATGAGCTCTACCTGC  1017
             |||||| ||||||||||||||||||||||||||||||  ||||| |  | ||| |||||||
Qy  1201 CAAAGTAAGTATCACCGTACTTACGACTTAAAATCTGTTTAGGCCAGTTAGGTATTA  1260
             |||||     ||  |  || ||| ||| || | |  ||||||  |||||||||||
Db  1018 CCAAGTTCTCCATCTCGTCGTGACTACAACCTGGAGGACGTCCTTCCAGAGCTGGGCATCA  1077
             ||||| || ||||| || |  |||| ||  ||||||||||| || |||| |||| |||||
Qy  1261 CCAAAGTTTTTCTAACGGTTGCCGATTTGAGTGGTGTTACTGAAGAAGGCTCCATTAAAAT  1320
             ||||  |||||  ||| |||  |||| ||||||||| | ||||||||  || |||||
Db  1078 AAGAAGTCTTCTCCACACAGGCTGACCTGTCTGGGATCACAGGGGATAAGGACCTGATGG  1137
             |||| || | ||| |||| || |||| |||  |||| |||  | || |||||  ||||
Qy  1321 TGAGTAAAGCTGTTCAACAAGCCGTCTTCAACTATTGATGAAAAGGGTACCGAGGCCCCG  1380
             || ||  |  || || |||| ||| | ||| | |  |  ||||||||| |||| |||||
Db  1138 TCTCTCAGGTGGTCCCAAGGGTGTTCTGGATGTGGCTGAGACGAAGCAGCACAGCAGCCG  1197
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Db   994 TTTGGAGGAACATGGTGATCTCACCAAGATCGCCCCCTCATCGCCAGCCTGAAAGTGGGCGAG  1053
             |||   | |||  ||| |||  ||  |||  |||     | |     ||||| |||||  |
Qy  1329 GCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGGTACCGAGGCCGCCGGCGTATG  1388
             |||||||||||||  |  || || | ||  | | |||||  || ||| ||| |||||||
Db  1054 GCTGTGCACAAGGCTGAGCTGAAGATGGATGAGAAGGGTACGGAGGGGCCCTGGCACC  1113
             | |||||||||||  ||||||||||     |  | ||||| ||||  |||  ||||||
Qy  1389 TTCCTGGAAGCTATTCCAATGAGCAATTCCACCAGAGTAAATTTAATAAACCATTCGTT  1448
             ||||  |||  ||| ||  ||||  ||||  | ||   |||||  | |||| |||||||
Db  1114 GGAGCACAGACTCTGCCCATGGAGACACCACTCGTCGTCAAGATAGACAACCCTATCTG  1173
             || |||||||| |||||  ||| ||||| ||| ||| |||||||  |||||  ||||
Qy  1449 TTTCTGATGATCGAGCAGAACAACTAGCCCATTGTTTATGGGTAAGGTTGTCAACCCA  1508
             |||   ||| |||| || ||     ||||  || || |||||  |||| ||||  |||
Db  1174 CTGCTGATTTACAGCGAGAAAAATACCTTCCGTGCTCTTCCCTGGGAAAGATTGTTAACCCT  1233

Qy  1509 ACTCAGAAGTA  1519
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Db  1234 ATTGGAAAATA  1244
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RESULT 12
US-09-917-800A-1325

; Sequence 1325, Application US/09917800A
; Patent No. US20020119462A1
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5038-US
; CURRENT APPLICATION NUMBER: US/09/917,800A
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/222,040
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 60/222,880
; PRIOR FILING DATE: 2000-11-02
; PRIOR APPLICATION NUMBER: US 60/290,029
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,645
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: US 60/292,336
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/295,798
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/297,457
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,884
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,459
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 1740
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1325
; LENGTH: 2051
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020119462A1 D00753
US-09-917-800A-1325

Query Match   12.0%;   Score 182.6;   DB 10;   Length 2051;
Best Local Similarity 50.5%;   Pred. No. 2.2e-37;
Matches 499;   Conservative 0;   Mismatches 484;   Indels 6;   Gaps 2;

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Qy   427 CCGAATTTGCTTTTTCTTTGTATAGACAATTAGCTCATCAAAGTAATTCTACTAACATTT  486
             ||     |  || || | |  ||  |||||  ||  ||||  ||  ||| |||  |||
Db   238 CTGACTTTGCCTTCAGCCTTCACAAGAAGCTGGCTTTGGAATCCAAGATAAAAATGTTG  297
             | |  |||   ||     ||||  |     | |||||  | || |||  | |||| |||
Qy   487 TTTTTAGTCTGTTTCATTGCCACTGCTTTCGCCACATGTTAGTTTAGGTACTAAAGCCG  546
             ||| ||  ||  || | || |   |||| | ||| |||     || || |||| ||||
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RESULT 13
US-09-960-352-12287

; Sequence 12287, Application US/09960352
; Patent No. US2002013713941
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND

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;       TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
;       FILE REFERENCE: 16511.006/37-21(10298)C
;       CURRENT APPLICATION NUMBER: US/09/960,352
;       CURRENT FILING DATE:  2001-09-24
;       NUMBER OF SEQ ID NOS: 15112
;       SEQ ID NO 12287
;       LENGTH: 391
;       TYPE: DNA
;       ORGANISM: Bos taurus
;       OTHER INFORMATION: Clone ID: 52-LIB34-079-Q1-E1-E8
US-09-960-352-12287

Query Match        10.6%;     Score 161;  DB 10;  Length 391;
Best Local Similarity   64.2%;     Pred. No. 3.8e-32;
Matches  242;  Conservative     0;  Mismatches  135;  Indels     0;  Gaps     0;

Qy     660 CAATTGCAATTAACTACTGGTAACGGTTTATTTTTGTCTGAAGGTTAAAATTGGTTGAC 719
           ||  || ||||| ||  ||  ||| |||| ||| || |||||  ||| ||| ||| ||
Db       2 CAGCTGCAACTGACCACTGGCAATGTCTGTTCATCAATGAGAGTGCAAAGCTAGTGGAT 61

Qy     720 AAATTCCTAGAGACGTCAAGAAACTATATCATAGTGAGGCTTTTACCGTTAATTTTGGT 779
           || ||| ||  |  || || ||  || || ||  |||| |  ||| || |||| ||||
Db      62 ACGTTTTGGGGATGTCAAGAACCTGTATCACTCCGAAGCCTTCCATCAACTTCAGG 121

Qy     780 GATACTGAGGAAGCTAAAAAGCAAATTAATGATTATGTTGAGAAAAGGCACCCAGGGTAAG 839
           |||  ||||||||   || ||| ||  | ||  || || |||||||||| ||| |||
Db     122 GATGCTGAGGAGGCCAAGAAGAGATCAACGATTATGTAGAGAAGGAAGCCATGGAAAA 181

Qy     840 ATCGTTGACCTAGTTAAAGAATTAGATGATCGTGATACCGTCTTCGCACTAGTTAACTATATT 899
           ||  ||||||||  ||||| ||| | |||| || |||||| ||  |||| ||||| ||||
Db     182 ATTGTGGAGTTGGTAAAGGTTCTTGACCCAAACACAGTTTTGCTCTGGTGAATTACATT 241

Qy     900 TTTTCAAGGGTAAGTGGGAACGTCTCTTTCGAGGTTAAAGATACTGAGAGAGAAGATTTT 959
           |||| || |||| | ||| |||  |  || |||| || ||  || || |||| |||
Db     242 TCCTTTAAAGGAAAATGGGAGGAAGCCCTTGCAGATGAAGCACACCACAGAGAGGGACTTC 301

Qy     960 CATGTTGATCAAGTTACTACTGTCAAAGTTCCAATGATGAAAAAGACTGGGTATGTTCAAT 1019
           ||||| || |  |||| || ||||| ||| |||||||| || |||| |||| |||
Db     302 CAGTGCAGCGAGCAAACACGTGAAGGTGCCCATGATGAACCGCCCTGGGCATGTTGAC 361

Qy    1020 ATTCAACATTGCAAAAA 1036
           || || ||||| ||
Db     362 CTCCACTACTGCGACAA 378
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RESULT 14
US-09-960-352-10531
;       Sequence 10531, Application US/09960352
;       Patent No. US2002013739A1
;       GENERAL INFORMATION:
;       APPLICANT: Warren, Wesley C.
;       APPLICANT: Tao, Nengbing
;       APPLICANT: Byatt, John C.
;       APPLICANT: Mathialagan, Nagappan
;       TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
;       TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
;       FILE REFERENCE: 16511.006/37-21(10298)C
;       CURRENT APPLICATION NUMBER: US/09/960,352
;       CURRENT FILING DATE:  2001-09-24
;       NUMBER OF SEQ ID NOS: 15112
;       SEQ ID NO 10531
;       LENGTH: 430
;       TYPE: DNA
;       ORGANISM: Bos taurus
;       FEATURE:
;       NAME/KEY: unsure
;       LOCATION: (398)
;       OTHER INFORMATION: unsure at all n locations
;       OTHER INFORMATION: Clone ID: 45-LIB34-014-Q1-E1-D2
US-09-960-352-10531

Query Match         9.6%;     Score 146.4;  DB 10;  Length 430;
Best Local Similarity   60.5%;     Pred. No. 2.3e-28;
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Matches  240;  Conservative     0;  Mismatches  157;  Indels     0;  Gaps     0;

Qy     504 ATTGCCACTGCTTTCCCATGTGAGTTTAGGTACTAAAGCCGATACCCATGACCAGAATT 563
           ||  ||| |||  ||  |  || | ||  | || || ||| ||  || ||| |||||
Db      32 ATTGCTTCAGCCTTTGCTATGCTCCCCTGGGAGCCAAGGCAACACTCACACTGAGATC 91

Qy     564 TTAGAAGGTTAAACTTAATTGACCGAAATCCCAGAAGCCCAAATTCACGAGGGTTTT 623
           || |||||||  || |  | ||  || | ||  || |||| || || || ||| ||||
Db      92 CTGAAGGGCCTGGGTTCAACCTCACTGAGCTCGCGAGAGCTGAGATCCCAAAGGCTTT 151

Qy     624 CAAGAGTTGTTGAGAACTTTGAATCAACCTGATTCTCAATTAACTACTGGTAAC 683
           || |||  || ||  |||  ||| || || ||  |||| |||| |||| |||
Db     152 CAGCATCTCTTCCCACACCCTGAACCAGCCAAACCACCACTGGTGACAACTGGCAAT 211

Qy     684 GGTTTATTTTTGTCTGAAGGTTAAAATTGGTTGACAAAATTCCTAGAAGACGTCAAGAAA 743
           || || ||| || || ||||| |  |  ||  |||  ||  || |||| ||||| |||
Db     212 GGTCGTGTCATCAATGAGAGTGCAAAGCTAGTGGATATGGTGATACGTTTTTGGAGGATGTCAAGAAC 271

Qy     744 CTATATCATAGTGAGGCTTTTACCGTTAATTTTGGTGATACTGAGGAAGCTAAAAAGCAA 803
           ||  |||| ||||| |||| |  || ||  || |||| ||| ||||||||| |||| ||
Db     272 CTGTATCACTCCGAAGCCTTCCATCAACTTCAGGGATCGTGAGGATCGTGAGGGCCAAGAGAAG 331

Qy     804 ATTAATGATTATGTTGAGAAAGGCACCCAGGGTAAGCTGTTGACCTAGTTAAAGAATTA 863
           ||   || ||||| |||||||||| ||| ||| |||  | ||  | || |||| |||||
Db     332 ATCAACGATTATGTAGAGAAGGGAGCCATGGAAAAATTGTGGAGTTGGTTAAAGGTTCTT 391

Qy     864 GATCGTGATACCGTCTTCGCACTAGTTAACTATATATT 900
           ||  | |   ||  ||| || || |||| ||||||
Db     392 GACCCANACACAGTTTTGCTCTGGTGAATTACATT 428
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RESULT 15
US-09-960-352-14649
;       Sequence 14649, Application US/09960352
;       Patent No. US2002013739A1
;       GENERAL INFORMATION:
;       APPLICANT: Warren, Wesley C.
;       APPLICANT: Tao, Nengbing
;       APPLICANT: Byatt, John C.
;       APPLICANT: Mathialagan, Nagappan
;       TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
;       TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
;       FILE REFERENCE: 16511.006/37-21(10298)C
;       CURRENT APPLICATION NUMBER: US/09/960,352
;       CURRENT FILING DATE:  2001-09-24
;       NUMBER OF SEQ ID NOS: 15112
;       SEQ ID NO 14649
;       LENGTH: 444
;       TYPE: DNA
;       ORGANISM: Bos taurus
;       OTHER INFORMATION: Clone ID: 62-LIB34-086-Q1-E1-H6
US-09-960-352-14649

Query Match         8.9%;     Score 135.8;  DB 10;  Length 444;
Best Local Similarity   58.2%;     Pred. No. 1.2e-25;
Matches  239;  Conservative     0;  Mismatches  172;  Indels     0;  Gaps     0;

Qy     406 ATAAAATTACTCCAAATTAGCGAATTTGCTTTTTCTTTGTATAGACAATTAGCTCATC 465
           | || ||| ||| ||| ||||| || ||| || | ||| ||  ||  ||||| |||||
Db      34 ACAAGATTGCCCCAACCTGGCCAACTTTGCCTTCAGCATATACCACCATTTGGCTCATC 93

Qy     466 AAGTAATTCTACTAACATTTTTTTAGTCCTGTTTCTATTGCCACTGCTTCGCCATGT 525
           || || ||| |  || ||||| || ||  | ||  |||| ||  ||| |||| |||
Db      94 AGTCCAACACCAGCAACATCTTCTCTCCCCCGTGAGCATCGCTGAGCATCGCTTTCAGCCTTTGCGATGC 153

Qy     526 TGAGTTTAGGTACTAAAGCCGATACCCATGACAGAGATTTTAGAAGGTTAAACTTAATT 585
           ||||  || | || |||||  || ||  || || ||| |   |||| |||| || ||
Db     154 TCTCCCTGGGAGCCAAGGCAACACTCACACTGAGATCCTGAAGGGCCTGGGTTCAACC 213

Qy     586 TGACCGAAATCCCAGAAGCCCAAATTCACGAGGGTTTCAAGAGTTGTTGAGAACTTTGA 645
           ||  ||| | ||  || |||| || || || ||| ||  |||  || ||  |||  |
Db     214 TCACTGAGCTCGCGAGATCCACAGAGGCTTTCAGCAGCTTTCCCACACCCTCA 273
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Qy   646 ATCAACCTGATTCTCAATTGCAATTAACTACTGGTAACGGTTTATTTTTGTCTGAAGGTT 705
          | |  ||  |    ||   ||||| | || |||||| ||     || || |   ||| || ||
Db   274 ACCAGCCAAACCACCAGCTGCAACTGACCACTGGCAATGGTCTGTTCATCAATGAGAGTG 333

Qy   706 TAAAATTGGTTGACAAATTCCTAGAAGACGTCAAGAAACTATATCATAGTGAGGCTTTTA 765
          |||  |  ||  || |  || ||| ||||||||| || ||||| |  ||| ||  || ||
Db   334 CAAAGCTAGTGGATACGTTTTTGGAGGATGTCAAGAACCTGTATCACTCCGAAGCCTTCT 393

Qy   766 CCGTTAATTTTGGTGATACTGAGGAAGCTAAAAAGCCAAATTAATGATTATG 816
          || |  || ||  | |||  | ||||||||| |  ||| | |  ||||||||
Db   394 CCATCAACTTCAGGGATGCTGAGGAGGCCAAGAAGAAGATCAACGATTATG 444
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Search completed: December 7, 2002, 02:10:03
Job time : 63 secs